



**UNIVERSITY OF SWAZILAND
SUPPLEMENTARY EXAMINATION PAPER**

PROGRAMME: BSC LWM 4 AND BSC AG ED 4

COURSE CODE: LUM 404

TITLE OF PAPER: NATURAL RESOURCES MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

SPECIAL MATERIAL REQUIRED: NONE

INSTRUCTIONS: ANSWER QUESTION ONE AND ANY TWO
OTHER QUESTIONS.

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN
GRANTED BY THE CHIEF INVIGILATOR**

SECTION A. COMPULSORY QUESTION

Question One

a. Explain what sustainable development is? Using the following principles, explain how sustainable development may be achieved:

- i. Systems theory
- ii. Dematerialization
- iii. Social justice
- iv. Accounting for natural capital
- v. Precautionary principle

30 marks

b. Using examples, discuss the importance of environmental impact assessment (EIA) as a tool for environmental management.

10 marks

SECTION B. ANSWER ANY TWO QUESTIONS

Question Two

a. Discuss why is population increase in most developing countries considered an environmental issue?

10 marks

b. What is the Local Agenda 21 and what does it purports to achieve?

10 marks

c. Give a brief and concise explanation why it is important to understand the environment?

10 marks

Question Three

a. Explain why a country's governance system important for natural resources management? 15 marks

b. Describe at least three common sources of water pollution

15 marks

Question Four

a. Describe the environmental impacts of agricultural activities on land and water resources

20 marks

b. Briefly describe the importance of the following in environmental management;

i. Biodiversity conservation

ii. Alien and invasive species

10 marks